

## Structured Cabling System Overview:

Our cutting-edge structured cabling system is designed to meet today's networking needs while preparing you for the technologies of tomorrow. Built with a modular, future-proof architecture, this system allows users to easily reconfigure and upgrade without the need for re-termination, making it highly adaptable to emerging technologies.

With pre-terminated cables available in 16 different lengths, the system supports high-speed RJ45 connections, single-pair Ethernet (SPE) for IoT devices, USB Type-C for modern data and power needs, and fiber optic modules for high-bandwidth applications.

One of the standout features is the ability to convert configurations on the fly. For example, you can transform four RJ45 modules into a combination of RJ45, SPE, and USB Type-C modules—or even integrate fiber-to-the-desktop—without changing the underlying network infrastructure.

**Our system is engineered to reduce installation time by up to 50%, minimizing disruptions to business operations and improving deployment efficiency.** The pre-terminated and modular components also help reduce cable waste, typically cutting down the excess cable usage by approximately 10%, which is often discarded during traditional installations.

This future-ready system allows you to seamlessly integrate upcoming technologies into your network without the need to overhaul your cabling. Whether you're outfitting an office, data center, or smart building, this versatile and easy-to-install solution will keep your network running smoothly for years to come.

Let's look at the components of this new cabling system.

# FACE PLATE



Rj45+SPE



Type C+LC



2X Rj45

MODULES

## 1. RJ45 Jack Modules:

- **Description:** Standard Ethernet connectors designed for high-speed data transmission, typically used for computers, servers, and networking hardware.
- **Modularity:** Easily swapped or combined with other modules, allowing configurations like converting multiple RJ45 jacks into a mix of RJ45, single-pair Ethernet (SPE), or Type-C modules without re-termination.
- **Future-Ready:** Supports current high-speed networks and will adapt to evolving Ethernet standards.

## 2. Single-Pair Ethernet (SPE) Modules:

- **Description:** Modules optimized for low-power, low-bandwidth applications, ideal for IoT devices, sensors, and industrial automation. These modules enable Ethernet communication over a single pair of wires.
- **Modularity:** Can be combined with RJ45, Type-C, or other modules for flexible installation.
- **Future-Ready:** Perfect for IoT and smart building applications, ensuring the system can support future IoT innovations without rewiring.

## 3. Type-C Modules:

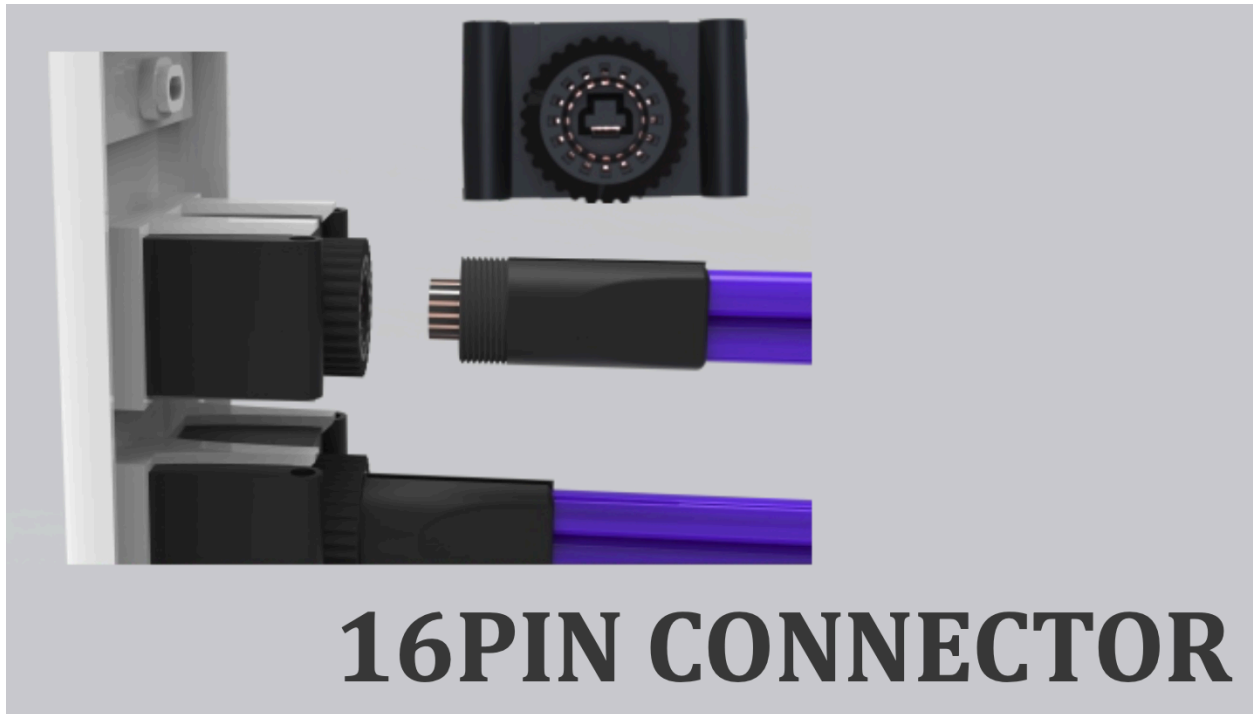
- **Description:** These modules offer USB Type-C connections, supporting both high-speed data transfer and Power Delivery (PD), making them ideal for modern devices such as laptops, smartphones, and peripheral equipment.
- **Modularity:** Type-C ports can be easily integrated into a setup with RJ45 and SPE modules, offering versatile connectivity options.
- **Future-Ready:** As USB-C becomes the standard for power and data transfer, these modules will ensure your network is ready for future device connectivity.

## 4. Fiber Optic Modules:

- **Description:** High-speed, long-distance data transmission through fiber optic connections, ideal for environments requiring large bandwidth and minimal signal loss.
- **Integration:** Fiber optic modules can be bundled with copper connections to enable fiber-to-the-desktop, streamlining installation and ensuring future network scalability.
- **Future-Ready:** Fiber optics are key to future-proofing your infrastructure, ensuring your system is prepared for next-generation bandwidth requirements.

## 5. Face Plates

- **Description:** Customizable faceplates designed to hold your network modules in place, offering a clean, professional appearance for offices, data centers, and smart buildings.
- **Modularity:** Faceplates can be outfitted with any combination of RJ45, SPE, Type-C, or fiber optic ports.
- **Future-Ready:** Modular faceplates allow for easy upgrades, ensuring that emerging technologies can be integrated without having to replace the infrastructure.



## 6. Pre-Terminated Cables:

- **Description:** These ready-to-install cables come in 16 different lengths, offering a plug-and-play solution that reduces installation time and eliminates the need for specialized tools.
- **Versatility:** Can be paired with any module combination for immediate use.
- **Future-Ready:** By supporting both copper and fiber connections, pre-terminated cables ensure compatibility with evolving network technologies.

## 7. 16-Pin Connectors:

- **Description:** Multi-pin connectors designed to handle a variety of network connections in one cable, simplifying the integration of multiple module types.
- **Modularity:** Allows for the bundling of different connection types (e.g., RJ45, SPE, fiber) in a single cable for streamlined installations.
- **Future-Ready:** These connectors make it easier to adapt to future technologies by enabling more flexible cabling configurations.



## 8. Patch Panels:

- **Description:** Centralized units for organizing network connections, designed to support both copper and fiber optic modules. These panels provide a clean, efficient solution for managing your structured cabling.
- **Modularity:** Compatible with various modules, allowing you to easily mix and match based on network needs.
- **Future-Ready:** Patch panels are built to handle the modular system's flexible configurations, ensuring smooth scalability as new technologies are introduced.